Ensuring The High Availability
Of Mission-Critical Data And Applications.

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Infrastructure Management & Monitoring
For *Business-Critical Continuity™*

Liebert® Nform™

Quick-Start Guide - Version 4

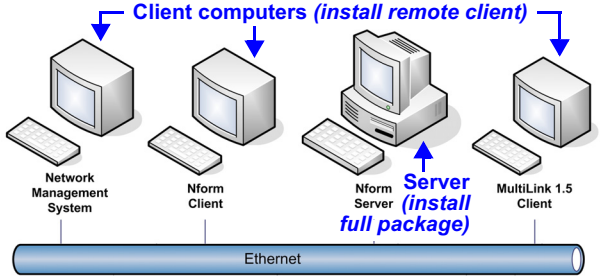
EMERSON
Network Power

1 INSTALLATION

A - OVERVIEW

Determine the type of installation, then see the appropriate section:

- Upgrade from version 2.0 or later: see **A1 - Upgrades**.
- Install on one computer: see **A2 - Installation on the Server**.
- Install on two or more computers: install a server version on one computer and client versions on any additional computers (see the example below):
  - See **A2 - Installation on the Server** (install full package).
  - See **A3 - Installation on a Client Computer** (install remote client).



- To install or upgrade an SQL Server database, find the appropriate folder on the CD, then follow the instructions in the **ReadMe.txt** file:

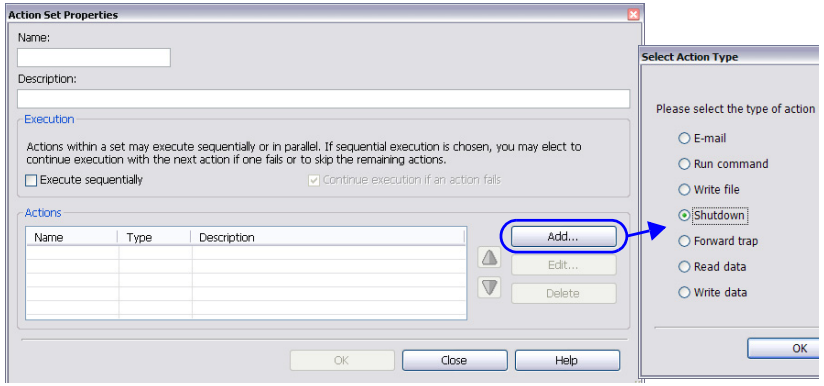
TYPE OF INSTALLATION	FOLDER	*EXAMPLE*
New Nform installation	**SQL**	*D:\sql\ReadMe.txt*
Upgrade installation	**SQL\upgrade**	*D:\sql\upgrade\ReadMe.txt*

- For complete details on installation and upgrades, see the user manual in the \docs directory of the CD.

5 CONFIGURE ACTIONS

To configure the software to respond to events and alarms:

- Click on the **Configure Actions** icon at the bottom of the window (or click on the **Configure** menu, then choose **Actions**).
- In the Action Sets window, click the **Add** button.



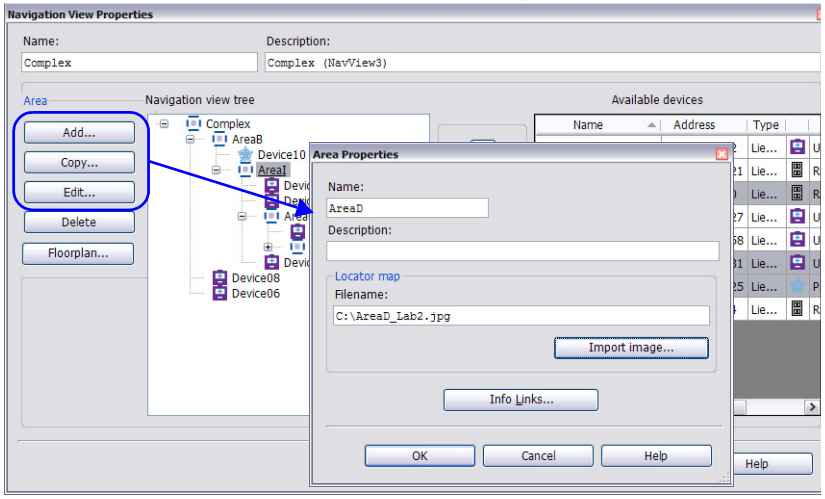
- Enter a name and description, then click **Add**.
- In the Select Action Type window, above right, click the type of action you wish to create: **E-mail**, **Run command**, **Write file**, **Shutdown**, **Forward trap**, **Read data** or **Write data**.
- Configure the action, then add other actions to the set as desired.
- When finished, click the **Map** button in the Action Sets window to define which alarms will trigger an actions set to be executed for which devices.

See the user manual for details.

4 Add Areas

An area may be added to organize devices or add graphic floor plans.

- Click on the **Configure** menu, then choose **Views**. Choose **Add**, **Edit** or **Copy** to open the Navigation View Properties window.
- In the Area section, choose **Add**, **Edit** or **Copy**.



- In the Area Properties window, enter a name that will appear in the tree. Optionally, add a description, a graphic image and info links. Click **OK**.
- See the user manual for details on using areas and floor plans in the tree.
- Click **OK** in the Navigation View Properties window to save the changes.

A1 - Upgrades

Liebert Nform devices, licenses, shutdown clients and e-mail actions can be exported from version 2.0 or later, then imported to the new version.

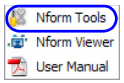
Export Configuration Data

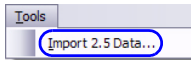
Be sure to save the export files in the default location (the **Export** folder in the version 2.X program folder).

- For version 2.5.002 or later, choose **Import/Export** from the **File** menu, or
- For older versions, run **export_utility.exe** (in **Upgrade** folder on the CD).

Import Configuration Data From:

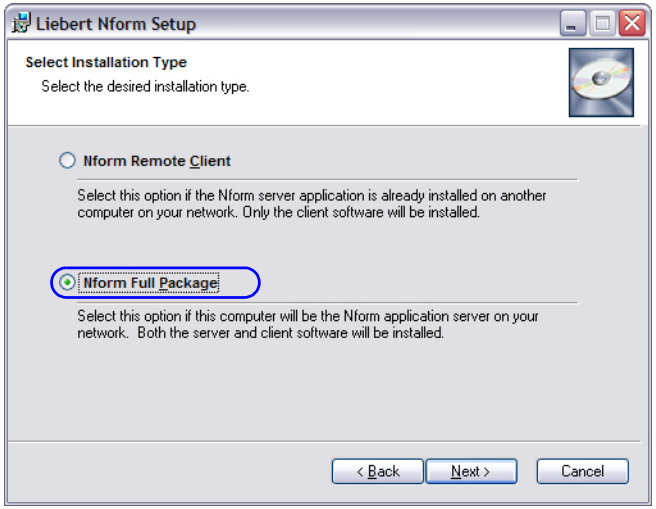
Same Server	Different Server (With Import 2.5 Data)
If the new version is to be installed on the same server: • Install version 4 as described in **A2 - Installation on the Server**. • The export files will be detected automatically (if in the default folder). If the import fails, follow the steps at right.	If upgrading to a different server, create a temporary folder on the Nform 4 server and copy the exported files to that folder. • Install version 4 as described in **A2 - Installation on the Server**. • On the Liebert Nform 4 server, click on the **Start** menu, then **Programs**, **Liebert Nform** and finally **Nform Tools**. • In the Liebert Nform Tools window, click on the **Tools** menu, then **Import 2.5 Data**. • Specify the folder containing the exported files in the **Directory** box—enter the full path or click **Browse** to locate it—then click **Open**. • Click **Import**. The import utility will stop the Nform service, import the files and restart the service.





A2 - Installation on the Server

- Insert the Liebert Nform CD in the computer's CD or DVD drive.
- The Installation Wizard starts automatically. (If not, open the Windows Explorer and navigate to the Liebert Nform CD, then double-click on **Setup.exe**.)
- Follow the on-screen instructions.
- In the Select Installation Type window, choose **Nform Full Package** to install both the server and client software. (This option may be installed on only one computer per license; for client computers, see **Section A3**.)

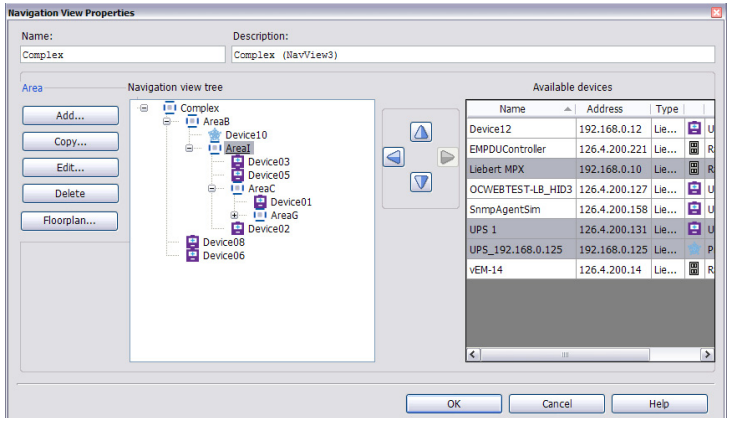

Liebert Nform Setup
Select Installation Type
Select the desired installation type.
Nform Remote Client
Select this option if the Nform server application is already installed on another computer on your network. Only the client software will be installed.
Nform Full Package
Select this option if this computer will be the Nform application server on your network. Both the server and client software will be installed.
< Back
Next >
Cancel

3 Configure Views

Views in the Navigate tab may be customized to create views for different users, organize devices into groups or add graphic floor plans.

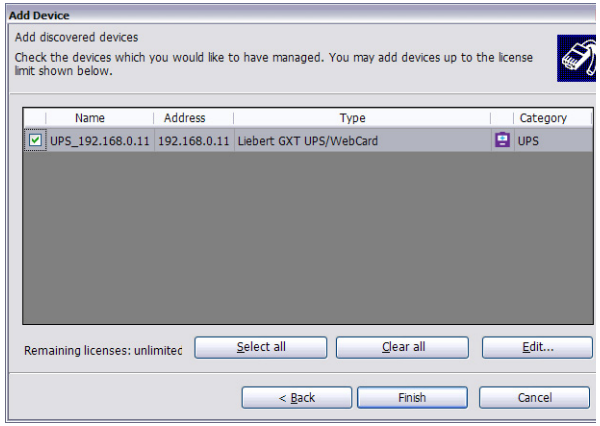
A default view called **All Devices** is automatically created and updated as devices are added to or deleted from the Managed Devices list.

- Click on the **Configure** menu, then choose **Views**. Choose **Add**, **Edit** or **Copy** to open the Navigation View Properties window.



- The Navigation View Tree at left shows how devices will appear in the Navigation view. The Available Devices list at right shows all devices that have not been assigned to the tree.
- Use standard shift-click and control-click methods to select multiple items, then use drag-and-drop or arrow buttons to move items.
- See the user manual for details.

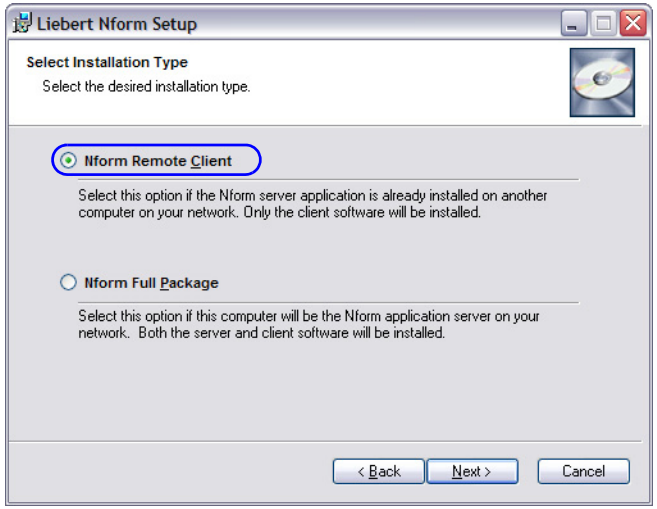
- The Add Discovered Devices window shows all supported devices detected during the search. You may add as many devices as allowed by your license. Review the list and:
  - Place a check mark ☑ next to each device you want to add to the list of managed devices.
  - Click **Select all** to add check marks to all devices.
  - Remove check marks from devices you do not want to have managed.



  - Click **Clear all** to remove all check marks.
  - Click the **Edit** button to view all properties or make changes, then refer to the user manual. Changes may be made at any time.
- Click **Finish**.
- A message confirms the device was added properly. Click **OK**, and the Managed Devices window displays all devices that have been added to the configuration.
- Click **Close** to return to the viewer.

A3 - Installation on a Client Computer

- Insert the Liebert Nform CD in the computer's CD or DVD drive.
- The Installation Wizard starts automatically. (If not, open the Windows Explorer and navigate to the Liebert Nform CD, then double-click on **Setup.exe**.)
- Follow the on-screen instructions.
- In the Select Installation Type window, choose **Nform Remote Client** to install the client software only. (This option applies to a client computer, but the full package must be installed on another computer—see **Section A2**.)

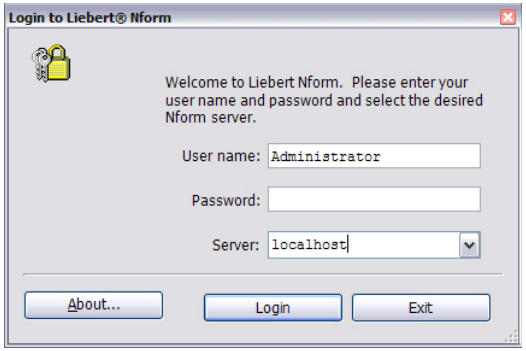

Liebert Nform Setup
Select Installation Type
Select the desired installation type.
Nform Remote Client
Select this option if the Nform server application is already installed on another computer on your network. Only the client software will be installed.
Nform Full Package
Select this option if this computer will be the Nform application server on your network. Both the server and client software will be installed.
< Back
Next >
Cancel

B - Start the Viewer and Log On as "Administrator"

To start the application:

- Double-click on the program icon (if added to the computer desktop during installation) OR
- Click on the **Start** button, then on **Programs**, then on **Nform Viewer**.

To log on:



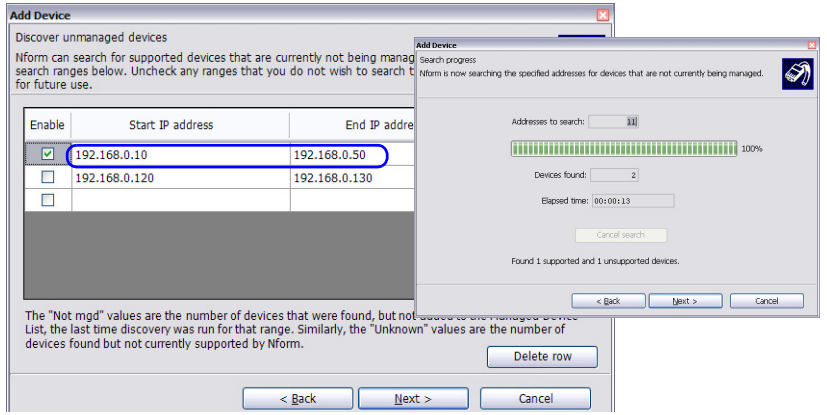
- Enter **Administrator** in the User name box on initial startup.

  By default, the Administrator account has full access to all software features including configuration.
- Leave the Password box blank on initial startup. **No password is required for the first login.** You will be prompted to create a password after logging in.
- In the Server box, enter the IP address or domain name of the server where Liebert Nform was installed.
- Click on the **Login** button.

NOTE: If you have trouble logging in, click the **About** button for technical support information.

- In the Discover Managed Devices window, below left, enter ranges of IP addresses to search:
  - **Enable** - Place a check mark ☑ for each range you wish to search now. Each range remains available for future searches until removed by clicking the **Delete row** button.
  - **Start IP address** - Click in the box and enter the lower end of the range—e.g., *198.162.0.10*.
  - **End IP address** - Click in the box and enter the upper end—*198.162.0.50*.

  Two columns display results from previous searches: **Not mgd** (number of devices found but not yet added to Managed Devices list) and **Unknown** (number of devices found but not currently supported by the software).
- Click **Next** to start the Auto Discovery process. The Search Progress window opens, below right.
- When the search is complete, the progress bar shows 100%. Click **Next**.

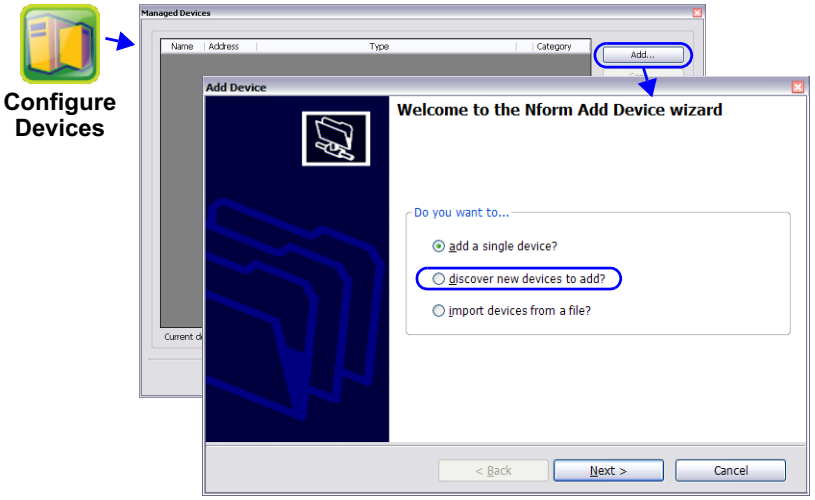

Add Device
Discover unmanaged devices
Nform can search for supported devices that are currently not being manag
search ranges below. Uncheck any ranges that you do not wish to search t
for future use.
Enable
Start IP address
End IP addre
192.168.0.10
192.168.0.50
192.168.0.120
192.168.0.130
The "Not mgd" values are the number of devices that were found, but not
List, the last time discovery was run for that range. Similarly, the "Unknown" values are the number of
devices found but not currently supported by Nform.
Delete row
< Back
Next >
Cancel
Add Device
Search progress
Nform is now searching the specified addresses for devices that are not currently being managed.
Addresses to search:
100%
Devices found:
Elapsed time:
Cancel search
Found 1 supported and 1 unsupported devices.
< Back
Next >
Cancel

B - Detect Devices on a Network

The auto discovery feature speeds up configuration with automatic detection of multiple devices within a range of IP addresses on a network.

To use Auto Discovery to detect devices on the network:

- Click on the **Configure Devices** icon at the bottom of the window (or click on the **Configure** menu, then choose **Devices**) to open the Managed Devices window.
- Click the **Add** button to open the Nform Add Devices wizard, below right.



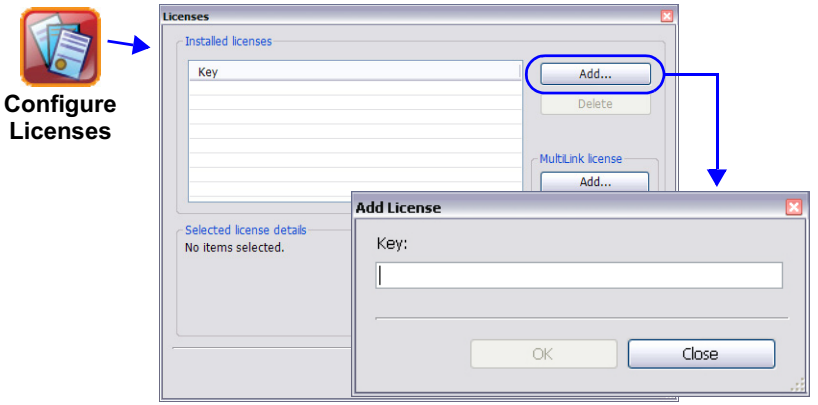
- Click on **Discover new devices to add**.

C - Enter the License Key

A Liebert Nform license key must be installed before any configuration is possible. If you purchased additional licenses, repeat the following steps to install each license.

To install a Liebert Nform license key:

- Click on the **Configure Licenses** icon at the bottom of the window (or click on the **Configure** menu, then choose **Licenses**).



- In the Licenses window, click the **Add** button at the top right.
- Read the license agreement, and click **I accept** to continue.
- In the Add License window, enter the 35-character license key including hyphens (-) from the sticker on the CD case or the certificate provided by Emerson, then click **OK**.

After installation, the license key numbers appear in the Licenses window or may be viewed through the Help menu. See the user manual.

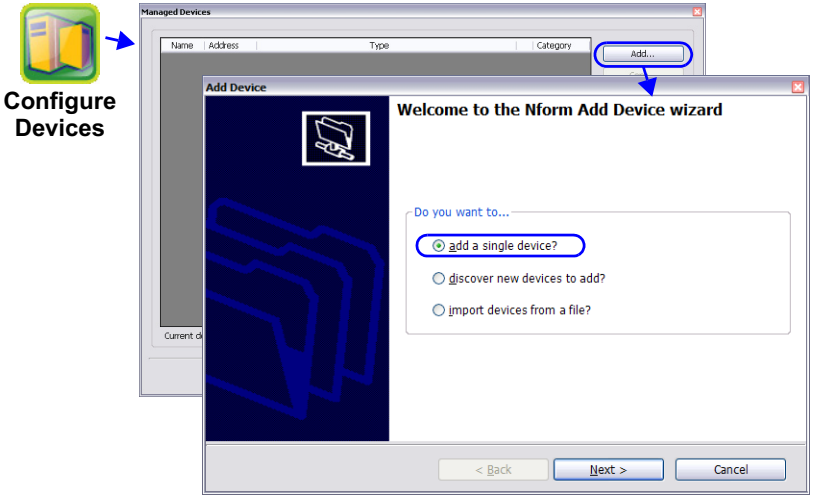
2 ADD DEVICES

Network devices may be added separately or automatically detected.

A - ADD A SINGLE DEVICE

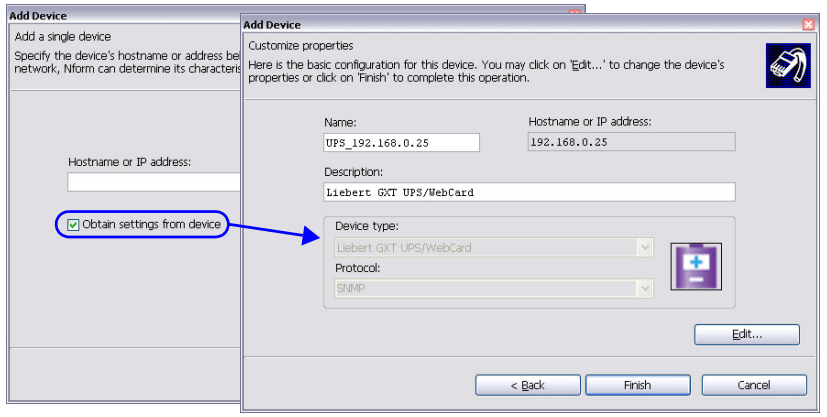
Devices may be added one at a time through this feature.

- Click on the **Configure Devices** icon at the bottom of the window (or click on the **Configure** menu, then choose **Devices**) to open the Managed Devices window.
- Click the **Add** button to open the Nform Add Devices wizard, below right.



- Click on **Add a single device**.

- In the Add a Single Device window, below left, enter the hostname or IP address of the device you wish to add.
- Check ☑ the **Obtain settings from device** box to automatically detect device characteristics—description, device type and protocol.
- Click **Next**.



- The Customize Properties window, above right, displays key device details. (To view or make changes to the properties at this time, click **Edit**, then refer to the user manual. Changes may be made at any time.)
- Click **Finish**.
- A message confirms the device was added properly. Click **OK**, and the Managed Devices window displays the newly added device.
- Click **Close** to return to the viewer.